LUNAR ROVER
TEST SUMMARY REPORT

Version *1.0*

25/10/2017

VERSION HISTORY

Version #	Implemented By	Revision Date
1.0	*Kin Leong Lee*	*25-Oct-2018*

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1   INTRODUCTION

1.1   PURPOSE

This Lunar Rover Test Report provides a summary of the results of test performed as outlined within this document. The software unit tests are running continuously thoroughly the development phases. The final acceptance test is running on 22-Oct-2017 and all type of tests will be running.

2   TEST SUMMARY

Project Name: Lunar Rover
System Name: Michael Jackson
Version Number: 1.0

2.1   SOFTWARE UNIT TESTS

All unit tests are created by JUNIT and running on each development phase to ensure that the system can be running without any unexpected issue.

2.1.1

Test Owner: Kin Leong Lee
Test Date: 22-Sep-2017
Test Description: To test the Event system can reference the difference unit object
Test Results: PASS – All objects are created successfully and referenced by event system
Additional Comments: This Test was running on each development phase. The final run is on 22-Oct-2017

2.1.2
Test Owner: Benjamin Charles Winding
Test Data: 27-Sep-2017
Test Description: To test whether service manager can be created
Test Results: PASS
Additional Comments: This Test was running on each development phase. The final run is on 22-Oct-2017

2.1.3
Test Owner: Huy Nguyen Phan
Test Data: 27-Sep-2017
Test Description: To test the software can successful enter manual mode and automatic mode
Test Results: PASS – Can return the appropriate value when the manual and automatic object are created.
Additional Comments: This Test was running on each development phase. The final run is on 22-Oct-2017

2.1.4
Test Owner: Huy Nguyen Phan
Test Data: 10-Oct-2017
Test Description: To test the software can successful enter idle mode and way point mode

Test Results: PASS – Can return the appropriate value when the idle and way point object are created. Also, the position can also be returned correctly in way point mode.

Additional Comments: This Test was running on each development phase. The final run is on 22-Oct-2017

2.1.5

Test Owner: Xiaoshan Chen

Test Data: 25-Sep-2017

Test Description: To test the colourtranslator class to ensure the color id can be returned correctly

Test Results: PASS – The color id can be matched to corresponding color name

Additional Comments: This Test was running on each development phase. The final run is on 22-Oct-2017

2.1.6

Test Owner: Pavitterjeet Singh Sidhu

Test Data: 27-Sep-2017

Test Description: To test the sensorstate class to ensure the value from ultrasonic sensor can be returned correctly

Test Results: PASS – The value can be returned correctly

Additional Comments: This Test was running on each development phase. The final run is on 22-Oct-2017

2.1.7

Test Owner: Sean Hennessy

Test Data: 20-Oct-2017

Test Description: To test the maptranslator object

Test Results: PASS – The system can read the XML file and output the XML file correctly

Additional Comments: This Test was running on each development phase. The final run is on 22-Oct-2017

2.3 INTEGRATION TEST IN SIMULATION ENVIRONMENT

Software Manager - Huy Nguyen Phan established a program to simulate the robot can move correctly based on the reading from senesors.

2.3.1

Test Owner: Huy Nguyen Phan
Test Date: 22-Oct-201
Test Description: To detect radiation area
Test Results: PASS
Additional Comments: The robot can detect radiation area and search the border on it

2.3.2

Test Owner: Xiaoshan Chen
Test Date: 22-Oct-201
Test Description: To detect Red color trail and follow this line
Test Results: PASS
Additional Comments:

2.3.3

Test Owner: Kin Leong Lee
Test Date: 22-Oct-201
Test Description: To detect caters and avoid it
Test Results: PASS
Additional Comments:

2.3.4

Test Owner: Pavitterjeet Singh Sidhu
Test Date: 22-Oct-201
Test Description: To detect no-go zone in real time and avoid it
Test Results: PASS
Additional Comments:

2.3.5

Test Owner: Benjamin Charles Winding
Test Date: 22-Oct-201
Test Description: To detect no-go zone in real time and avoid it
Test Results: PASS
Additional Comments:

2.3.6

Test Owner: Benjamin Charles Winding
Test Date: 22-Oct-201
Test Description: To detect the border and do not exceed the border
Test Results: PASS
Additional Comments:

2.3.7
Test Owner: Sean Hennessy
Test Data: 22-Oct-2017
Test Description: To detect a aplio and return to starting point
Test Results: PASS
Additional Comments:

2.3.8
Test Owner: Huy Nguyen Phan
Test Date: 22-Oct-201
Test Description: To detect obstacle and avoid it
Test Results: PASS
Additional Comments:

2.4   INTEGRATION TEST IN USER ENVIRONMENT

2.4.1

Test Owner: Huy Nguyen Phan
Test Date: 22-Oct-201
Test Description: To detect radiation area
Test Results: FAIL
Additional Comments: The color sensor is not sensitive enough to distinguish green and blue

2.4.2
Test Owner: Xiaoshan Chen
Test Date: 22-Oct-201
Test Description: To detect Red color trail and follow this line
Test Results: PASS
Additional Comments:

2.4.3
Test Owner: Kin Leong Lee
Test Date: 22-Oct-201
Test Description: To detect caters and avoid it
Test Results: PASS
Additional Comments:

2.4.4
Test Owner: Benjamin Charles Winding
Test Date: 22-Oct-201
Test Description: Can draw the location on GUI
Test Results: PASS
Additional Comments:

2.4.5
Test Owner: Pavitterjeet Singh Sidhu
Test Date: 22-Oct-201
Test Description: To detect no-go zone in real time and avoid it
Test Results: PASS
Additional Comments:

2.4.6
Test Owner: Benjamin Charles Winding
Test Date: 22-Oct-201
Test Description: To detect the border and do not exceed the border
Test Results: FAIL
Additional Comments: The color sensor is not sensitive enough to distinguish green and blue

2.4.7
Test Owner: Sean Hennessy
Test Data: 22-Oct-2017
Test Description: To detect a aplio and return to starting point
Test Results: PASS
Additional Comments:

2.4.8
Test Owner: Benjamin Charles Winding
Test Date: 22-Oct-201
Test Description: To detect obstacle and avoid it
Test Results: PASS
Additional Comments:

3   TEST RESULTS

The testing result is acceptable. However, regarding integration test cases running in user environment, the testing result is not satisfactory since the color sensor is not sensitive enough to detect the correct color

4   SUGGESTED ACTIONS

In order to improve the accuracy for detecting the border and radiation area, we may need to change the color representation in the map for border and radiation area

5 APPENDIX A: TEST SUMMARY REPORT APPROVAL

The undersigned acknowledge they have reviewed the Lunar Rover **Test Summary Report** and agree with the approach it presents. Changes to this **Test Summary Report** will be coordinated with and approved by the undersigned or their designated representatives.

Signature: _____   Date: _____

Print Name: _____

Title: _____

Role: _____

Signature: _____   Date: _____

Print Name: _____

Title: _____

Role: _____

Signature: _____   Date: _____

Print Name: _____

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Role: _____

Signature: _____   Date: _____

Print Name: _____

Title: _____

Role: _____

APPENDIX B: REFERENCES

The following table summarizes the documents referenced in this document.

Document Name and Version	Description	Location
Test summary report template	Test summary report	https://strongqa.com/qa-portal/testing-docs-templates/test-report